NOTES

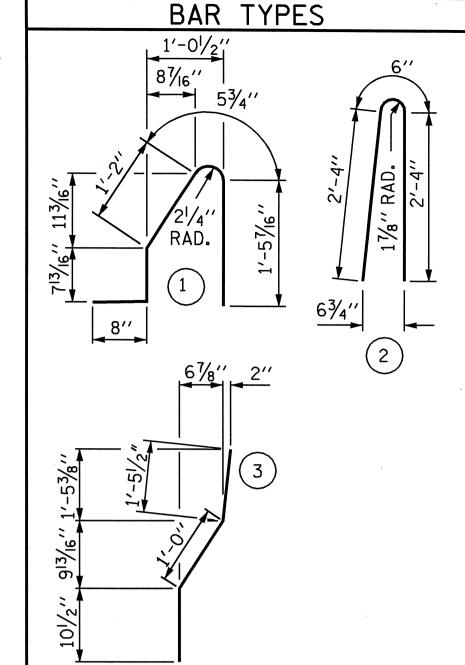
THE BARRIER RAIL IN A CONTINUOUS UNIT SHALL NOT BE CAST UNTIL ALL SLAB CONCRETE IN THE UNIT HAS BEEN CAST AND HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.

WHEN COMPRESSION JOINT SEAL OR EVAZOTE JOINT SEAL IS REQUIRED, THE JOINT IN THE DECK SHALL BE SAWED PRIOR TO THE CASTING OF BARRIER RAIL.

ALL REINFORCING STEEL IN BARRIER RAILS SHALL BE EPOXY COATED.

THE #5 S3 AND #5 S4 BARS SHALL BE INSTALLED, USING AN ADHESIVE ANCHORING SYSTEM, AFTER SAWING THE JOINT. FOR ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS, SEE SPECIAL PROVISIONS. THE YIELD LOAD FOR THE #5 S3 AND #5 S4 BARS IS 18.6 KIPS. FIELD TESTING FOR THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

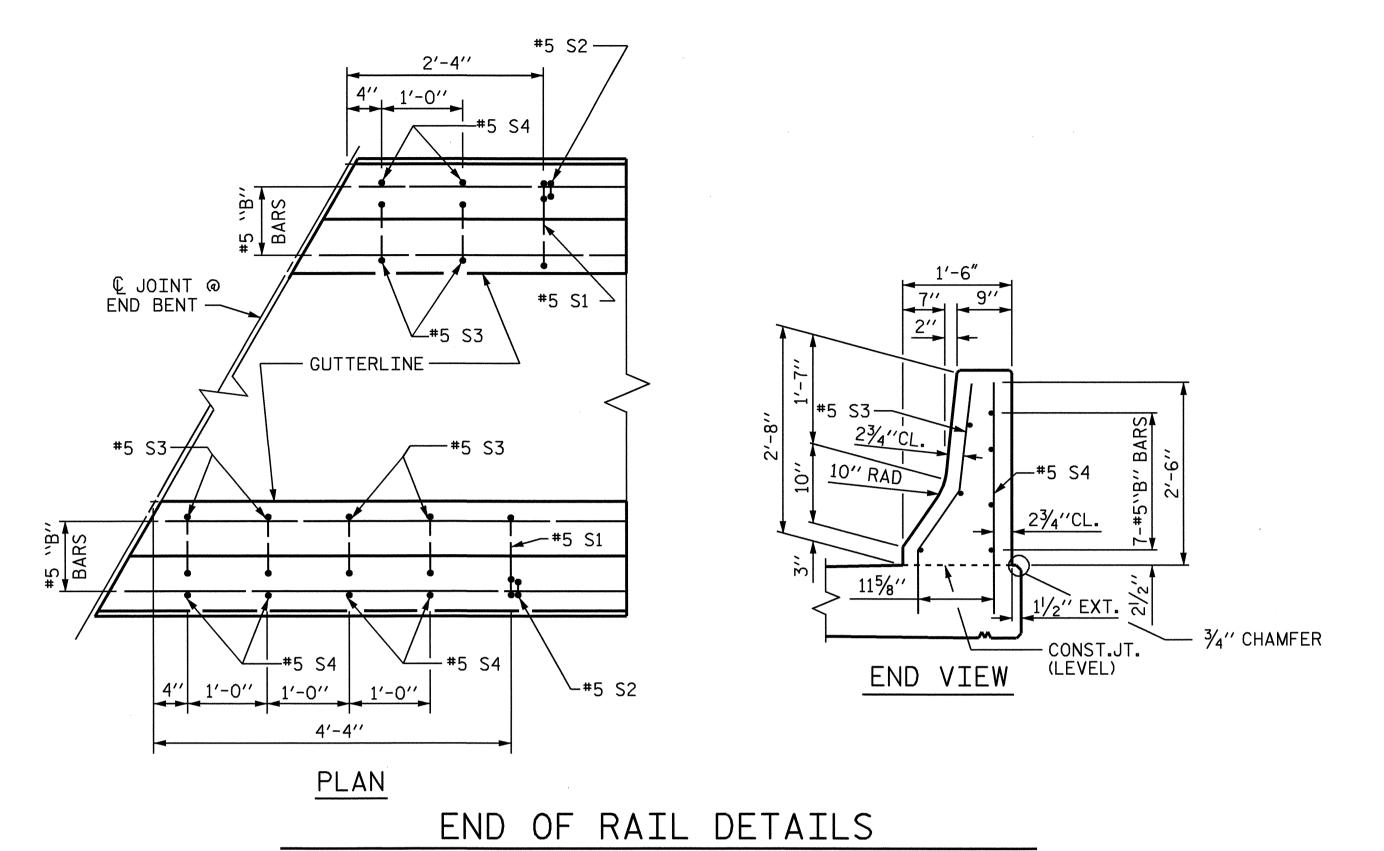
VERTICAL GROOVED CONTRACTION JOINTS, $\frac{1}{2}$ " IN DEPTH, SHALL BE TOOLED IN ALL EXPOSED FACES OF THE BARRIER RAIL AND IN ACCORDANCE WITH ARTICLE 825-10(B) OF THE STANDARD SPECIFICATIONS. THE CONTRACTION JOINT SHALL BE LOCATED AT EACH THIRD POINT BETWEEN BARRIER RAIL EXPANSION JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN 10 FEET IN LENGTH.



ALL BAR DIMENSIONS ARE OUT TO OUT

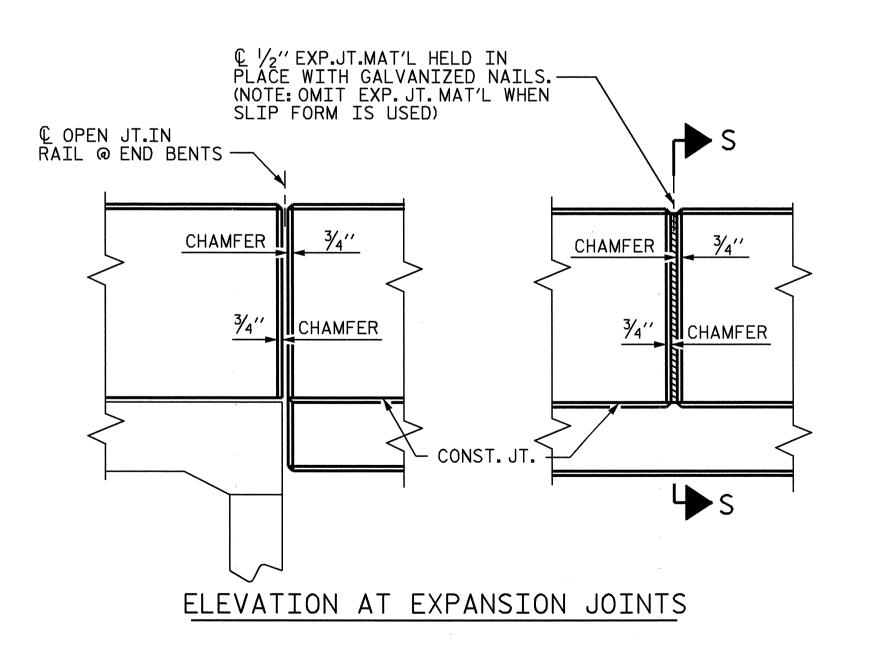
BILL OF MATERIAL						
FOR CONCRETE BARRIER RAIL ONLY						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
★ B1	56	#5	STR	9'-3''	540	
₩ B2	84	#5	STR	21′-3′′	1862	
* S1	304	#5	1	4′-5″	1400	
* S2	304	#5	2	5′-2′′	1638	
* S3	12	#5	3	3'-4''	42	
 ★ S4	12	#5	STR	3'-2''	40	

本 34	12	້	SIK	3 - 2			40
* EPOXY	COAT	ED					
REINF	ORCIN	G STE	EL		5,	522	LBS
CLASS A	A CON	CRETE		. 3	31.6	CU.	YDS.
CONCRET	F BAR	RTFR F	RATI	315	5.19	ITN	FT.

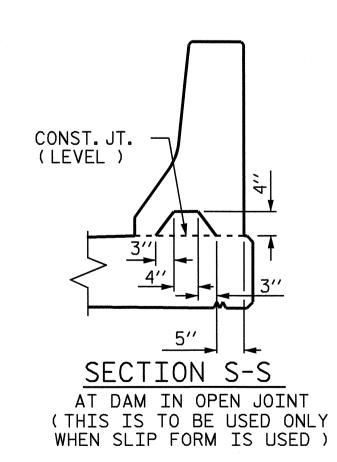


FOR ADHESIVE ANCHORING AT SAWED JOINTS

__#5 S2 @ 1'-0'' CTS. #5 S1 @ 1'-0'' CTS. — ¾'' CHAMFER "B" BARS `—#5 ``B'' BARS (TYP.) CONST. JT. 11/2" EXT. (LEVEL) 2- 1"△ GR00VES BEAM BOLSTER IN SLAB OVERHANG SECTION THRU RAIL



BARRIER RAIL DETAILS



PROJECT NO. B-3885 ORANGE COUNTY STATION: 17+75.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD

CONCRETE BARRIER RAIL

OC	TOBER					1987
		REV	ISIONS	5		SHEET NO.
10.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS
2			4			33

ASSEMBLED BY: P.C. BREWER DATE: 6/4/03 CHECKED BY: S.B. WILLIAMS DATE: 8/4/03 REV. 8/16/99 REV. 10/17/00 REV. 5/7/03 RWW/LES RWW/LES RWW/JTE CHECKED BY : SJD 9/87